Protein L-Sepharose

FOR RESEARCH USE ONLY! Not to be used on humans.

CATALOG #:

6531-1	1 ml
6531-5	5 ml
6531-25	25 ml
6531-100	100 ml

LOT #: _____

PREPARATION: Protein L-Sepharose is prepared by covalently coupling recombinant Protein L (contains five Ig light chain binding domains, BV catalog # 6530-10) to 6% cross-linked sepharose beads. The coupling technique is optimized to give a high binding capacity. The capacity of IgG binding is generally greater than 10 mg of human IgG per ml of wet gel.

CONTENTS: Supplied as a 50% slurry in 20 % Ethanol/H2O
2-3 mg Protein L/ml of sepharose beads.

FEATURES: Binding capacity of human IgG is greater than 10 mg/ml of gel; High flow rate; Low falling off of rProtein L; pH stability 2-10. Note: Protein L binds to all IgG subclasses from human, mouse and rat species. It also binds to human, mouse, and rat IgM, IgA, IgE, and IgD, as well as Fab and K light chains. Protein L is also superior for binding to chicken, Hamster and pig IgG.

APPLICATIONS: Purification of monoclonal and polyclonal antibodies, Immunoprecipitation

STORAGE: Store at 4°C. Do not freeze. Stable, as supplied, for at least 1 year.

IgG PURIFICATION PROCEDURE EXAMPLE:

1. Wash column with ddH_2O to remove air bubbles.
2. Fill column with protein L beads.
3. Wash the column with 5X volume of Binding Buffer.
4. Dilute serum sample with Binding Buffer (1:1 ratio).
5. Invert the diluted serum sample to mix well. Make sure no bubbles in the solution.
6. Pour the solution onto the column.
7. Collect the solution and repeat step 6 & 7 for 10 times.
8. Wash the column 4 – 5 times with Binding Buffer containing 0.5 M NaCl
9. Wash the column 4 - 5 times with the Binding Buffer.
10. Add Elution Buffer to elute IgG (0.5-1 ml each time).
11. Collect the eluent using microcentrifuge tube.
12. Assay protein concentration and combine the fractions containing sufficient amount of IgG.
13. To regenerate/store column:
    a. Wash with 3 volumes of elution buffer.
    b. Wash with 3 volumes of distilled water.
    c. Store column in 20 % Ethanol/H2O.

Buffer Example:

Binding buffer: 0.05 M sodium borate, 0.15 M sodium chloride pH 8.0
Elution buffer: 0.1 M citric acid, pH 2.75

RELATED PRODUCTS:

- Recombinant Protein G & Sepharose Beads
- Recombinant Protein L & Sepharose Beads
- Recombinant Protein A/G & Sepharose Beads
- Recombinant Protein A/G/L & Sepharose Beads
- Protein A Polyclonal Antibody
- Protein G Polyclonal Antibody
- Protein L Polyclonal Antibody

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